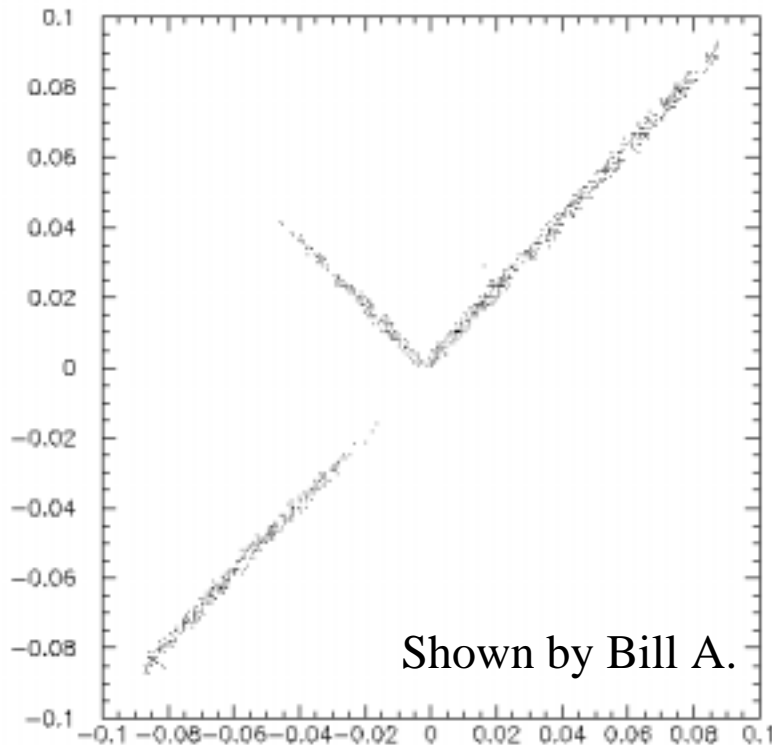


# Update on the Track Fitter(TF)

6<sup>th</sup> SVT workshop Sep. 10-11, 02

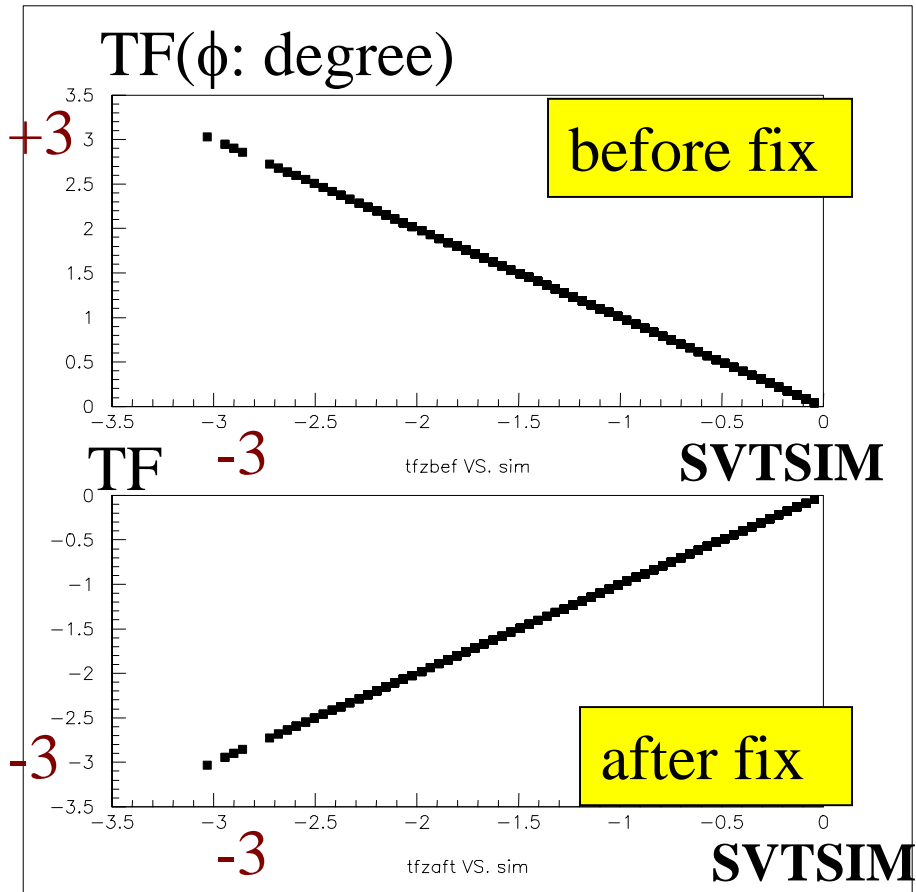
Un-ki Yang, Univ. of Chicago



TF vs SVTSIM in  $\phi$

- $\phi=0$  problem was fixed.
- A possible source of the TF failure in Flash MEM (one per 1-2 months) was eliminated.
- $\phi=0$  problem!  
 $\phi = \phi_o + \delta\phi_o (= \mathbf{f} * \delta\mathbf{x}, 8\text{bits})$   
(13bits from 0 to  $2\pi$ )  
Negative  $\phi$  value occurs, if  $-\delta\phi_o > \phi_o$  (around +0).

# $\phi=0$ problem in the TF



TF vs SVTSIM in  $\phi$

- A test in B0 Teststand shows that this problem occurs at 7% rate in wedge 0.
- No problem appears with fixed version of firmware (correction was done within 8 LS bits=11°).

## ☐ Things to do!

1. Install updated firmware on the other 11 Rev-B TFs and 2 Rev-A TFs.
2. Need to fix problems in two spare TFs (Rev-B): VME block data transfer in one TF, stability check on another TF (currently, working spare boards: 1 Rev-B, 2 Rev-A TFs)